
**SYSTEM AND METHOD FOR RAPID OPTIMIZATION OF CONTROL
PARAMETERS OF AN IMPLANTABLE CARDIAC STIMULATION DEVICE**

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Abstract of the Disclosure

- 10 Techniques are provided for rapidly optimizing control parameters of
pacemakers or implantable cardioverter defibrillators. Briefly, the heart is
paced using different sets of control parameters during a sequence of
consecutive short evaluation periods of equal duration, which each last only
about 5 - 12 seconds. Transient cardiac performance is monitored during
15 each of the short evaluation phases and optimal parameter settings are then
estimated based on changes in the transient cardiac performance from one
parameter setting to another. By using a series of consecutive short
evaluation periods of equal duration, rather than switching between short
test periods and longer baseline periods, the overall duration of the test can
20 be reduced as compared to predecessor techniques that require long
intervening baseline periods.